



in protection of environment

NIMBUA GREENFIELD (PUNJAB) ASSOCIATION

(formerly known as Nimbua Greenfield (Punjab) Limited)

TSDF, AFRF and Common Incinerator for Hazardous Waste

Nimbua Greenfield (Punjab) Association

Supreme Court of India ruled in 2003 in *re W.P.(C)657/1995: Research foundation for Science, Technology and Natural Resources Policy vs Union of India & others* that all States including Punjab should have common treatment, storage and disposal facility (TSDf) for hazardous waste. **Punjab Government** exhorted the industry to come forward to form a SPV for establishing TSDf in Punjab and Nimbua Greenfield (Punjab) Association (NGPA) was formed.

NGPA was promoted by a group of nine companies on persuasion of **Punjab Pollution Control Board (PPCB)** to develop and implement the project for establishing TSDf of hazardous waste being generated in Punjab. NGPA is a section 8 company. Project implementation was facilitated by **Department of Industrial Policy & Promotion, Ministry of Commerce, Govt of India** by means of a grant of Rs 12.69 crores for the project under Industrial Infrastructure Up-gradation Scheme (IIUS).

Project site situated at village Nimbua about 10 km from Derabassi was finalized by PPCB. Punjab Government fully supported the project in the true spirit of Public-Private Partnership. Concerted efforts were made by Punjab Science & Technology Department, and PPCB for acquisition of 20.74 acres of land which was given to the Company for the project on a nominal lease. A high powered Technical Committee was constituted under the chairmanship of Principal Secretary (Science & Technology), Punjab for overseeing all crucial matters. Technical Committee comprised technical experts and representatives from PPCB, CPCB, Ministry of Environment & Forest, NGPA and industry of Punjab.

Tetra Tech India Ltd (TTIL) was appointed as consultants for carrying out detailed inventorisation studies. Senes (India) Limited was appointed as technical consultants for preliminary design and engineering study. After going through a bidding process with the assistance of IL&FS, Re Sustainability Limited (earlier known as Ramky Enviro Engineers Limited) was awarded the contract for design, construction and operation of the project. Project was inaugurated on 3rd October 2007. About 3,60,000 tonnes of waste has already been received for disposal till December 2022 from industry of Punjab and UT Chandigarh.



PROMOTERS

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|------------------------|--------------------------------------|-----------------------|----------------------------------|
| ★ Aarti Steels Limited | ★ Sun Pharmaceuticals Industries Ltd | ★ Hero Cycles Limited | ★ Steel Strips Wheels Ltd. |
| ★ Trident Limited | ★ Nahar Capital Financial Services | ★ Avon Cycles Limited | ★ Vardhman Textiles Limited |
| | | | ★ Ind Swift Laboratories Limited |

SALIENT FEATURES (Phase- I)

PROJECT COMPONENTS:

- 1. Secured engineered landfill** having double liner system, garland drains & pond and leachate collection system is spread over an area of about 10 acres. Landfill capacity would last till March 2029.
- 2. Pre- treatment and Stabilisation Unit, Temporary Waste Store, Incinerable Waste Store, Multiple Effect Evaporator and Intractable waste Store with lined flooring and Leachate Collection System.**
- 3. A state of the art Laboratory** (a) Wet Lab (b) Organic Lab (c) Inorganic Lab (d) Analytical Lab with sophisticated equipments like AAS, GC-MS, UV –Vis Double Beam Spectrophotometer, Bomb Calorimeter, CHNS analyser, etc. for waste characterisation and environmental monitoring. It is a NABL accredited laboratory. Operator is offering waste analysis/ characterization services at competitive rates.
- 4. On site infrastructure** includes drainage system, water supply, sanitation, standby power, approach roads, administrative office, garage, parking, waste reception & sampling area, equipment shelter shed, security cabin, weighing bridge, etc.



LANDFILL AREA

In Brief

Project Cost: 17.69 crore (2007)
Area: 20.74 Acres
Landfill Area: 9.48 Acres
Landfill Capacity: 7.12 Lakh tonne
Storage Shed Capacity: 4000 m³
Stabilization pit: 120 tonne
SEP (Solar Evaporation Pond): 800 m³
Green Belt: 5.00 acres

SERVICES OFFERED

- Lab Facility (NABL accredited)
- Transportation of Waste
- Disposal of DLF Waste
- Disposal of LAT Waste
- Incineration of INC Waste

SALIENT FEATURES (Phase- II)

STATE OF ART FACILITY ADDED RECENTLY

- Common Incinerator – 500 kg/hr (3,000 tpa)

FUTURE PLAN

- Alternative Fuel Resource Facility (AFRF) – 10,000 tpa
- Purchased Plot of Land (10.41 acre) – landfill for next 6 years



COMMON INCINERATOR

WASTE OFFTAKE AGREEMENT

Company (The Developer) enters into a tripartite agreement with Re Sustainability Limited (The Operator) and the Industry (The Generator) for facilitating collection, transportation, storage, treatment, incineration, AFRF and disposal of hazardous waste.

As per the agreement

The Generator in accordance with the Hazardous waste Rules provides the process details which lead to generation of Hazardous Waste to the Operator for the purpose of determining the Waste Characteristics and to decide parameters for Comprehensive Analysis as well as final pathway for its treatment, storage and disposal.

The Generator declares Hazardous Waste Quantities on annual basis as per the Rules so as to confirm a set schedule of waste disposal by the Operator.

The responsibility for categorization of waste rests with the Generator. However, the Operator extends all possible help and guidance to the Generator for categorization of Waste and its detailed analysis.

The Operator accepts Hazardous Wastes at the facility from the Generator, registered as member with NGPA and have appropriate Authorization from Punjab Pollution Control Board.

Unless the Generator itself transports the wastes to the Facility in accordance with the applicable laws, the Operator transports the Hazardous Wastes by itself or through authorized transporter(s).

Miscellaneous

- Waste can also be accepted from the industries which are closed but, have valid Authorization for hazardous waste from PPCB, without becoming member of the TSDF.
- Industrial units which are running but have stopped generation of hazardous waste can also bring their waste to TSDF without becoming the members of the TSDF.



BOARD OF DIRECTORS

Dr A K Kundra, IAS (Retd) - Chairman
Shri D K Sindwani - Director, Vardhman Textiles Limited
Shri Onkar Singh Pahwa - CMD, Avon Cycles Limited
Shri Shashi Kant Rai - Managing Director, Hero Cycles Limited
Shri Shiv Parshad Mittal - CMD, Aarti Steels Limited
Shri N R Munjal - V C cum MD, Ind -Swift Laboratories Limited
Shri Hari Narain Singhal - VP-HR & Admin, Nahar Industrial Enterprises
Shri Anubhav Nayyar - Institutional Builder, Trident Limited
Shri Azadar Khan - Director, Sun Pharmaceuticals Industries Limited

Executive Director

Shri R N Jindal - former Director, MoEF&CC